

# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year) **See form PCT/ISA/210**

Applicant's or agent's file reference

**36181/PCT**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/FR2005/000553**

International filing date (day/month/year)

**08.03.2005**

Priority date (day/month/year)

**08.03.2004**

International Patent Classification (IPC) or both national classification and IPC

**INV. H03M7/42 H04L9/00**

Applicant

**MEDIALIVE**

1. This opinion contains indications relating to the following items:

- |                                     |              |  |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the opinion   |
| <input type="checkbox"/>            | Box No. II   | Priority   |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability   |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention   |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input checked="" type="checkbox"/> | Box No. VI   | Certain documents cited  |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application   |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application  |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2005/000553

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language  
\_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ in written format  
☐ in computer readable form

c. time of filing/furnishing

- ☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/FR2005/000553

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

**1. Statement**

Novelty (N)

Claims 1-19

YES

Claims

NO

Inventive step (IS)

Claims

YES

Claims 1-19

NO

Industrial applicability (IA)

Claims 1-19

YES

Claims

NO

**2. Citations and explanations:**

1. Reference is made to the following documents:

**D1: EP-A-0 793 366 (HITACHI LTD) 3 September 1997  
(1997-09-03)**

**D2: EP-A-0 851 627 (HITACHI LTD) 1 July 1998  
(1998-07-01)**

2.1 Document D1 describes an operation for encrypting or protecting the confidentiality of a digital text compressed with a compression algorithm of the Huffman type, by means of the introduction of a secret modification of the said compression algorithm. See for example columns 7 and 8: "the method of this embodiment can use the compression as a kind of encryption"; "the correspondence changing ... is executed to change a correspondence between the bit trains of the compressed data and the plaintext data on the basis of the work key...". The said secret key or "work key" must be sent by a separate path from the modified compressed digital text, so as to allow the reconstruction of the original compressed digital text by the destination equipment.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2005/000553

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

This alteration of the compression algorithm as a function of secret complementary information is equivalent to the extraction of one or more original codes and their substitution by valid "decoy" codes, such as described in the independent claims. The present application therefore fails to comply with the requirements of PCT Article 33(1) since the subject matter of the said claims does not involve an inventive step (PCT Article 33(3)).

- 2.2 The dependent claims do not appear to contain any additional features which, in combination with the subject matter of any one of the claims on which they depend, meet the requirements of the PCT in respect of inventive step, given that the technical features to which the said claims refer are well known to the person skilled in the art and/or that they are already used for the same purpose in document D1 or D2. In particular, it is noted that document D2 mentions the protection of texts compressed with algorithms from the Lempel-Ziv family.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FR2005/000553

Box No. VI Certain documents cited

1. Certain published documents (Rule 43bis.1 and 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
-------------------------------	--------------------------------------	---------------------------------	---

2. Non-written disclosures (Rule 43bis.1 and 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
--------------------------------	--	---

See form 210

# TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS

## PCT

### RAPPORT PRÉLIMINAIRE INTERNATIONAL SUR LA BREVETABILITÉ (chapitre I du Traité de coopération en matière de brevets)

(règle 44bis du PCT)

Référence du dossier du déposant ou du mandataire 36181/PCT	<b>POUR SUITE À DONNER</b> Voir le point 4 ci-dessous	
Demande internationale no. PCT/FR2005/000553	Date du dépôt international ( <i>jour/mois/année</i> ) 08 March 2005 (08.03.2005)	Date de priorité ( <i>jour/mois/année</i> ) 08 March 2004 (08.03.2004)
Classification internationale des brevets (8 <sup>e</sup> édition, sauf indication d'une #dition ant#rieure) Voir les informations pertinentes dans le formulaire PCT/ISA/237		
Déposant MEDIALIVE		

1. Le présent rapport préliminaire international sur la brevetabilité (chapitre I) est établi par le Bureau international au nom de l'administration chargée de la recherche internationale selon la règle 44bis.1.a).

2. Ce RAPPORT comprend un total de 6 feuilles, y compris la présente feuille de couverture.

Dans les feuilles jointes, toute référence à l'opinion écrite de l'administration chargée de la recherche internationale doit être entendue, à la place, comme une référence au rapport préliminaire international sur la brevetabilité (chapitre I).

3. Le présent rapport contient des indications relatives aux points suivants :

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Cadre n° I  | Base de l'opinion   |
| <input type="checkbox"/> Cadre n° II            | Priorité  |
| <input type="checkbox"/> Cadre n° III           | Absence de formulation d'opinion quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle  |
| <input type="checkbox"/> Cadre n° IV            | Absence d'unité de l'invention  |
| <input checked="" type="checkbox"/> Cadre n° V  | Déclaration motivée selon l'article 35.2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration |
| <input checked="" type="checkbox"/> Cadre n° VI | Certains documents cités  |
| <input type="checkbox"/> Cadre n° VII           | Certaines irrégularités relevées dans la demande internationale   |
| <input type="checkbox"/> Cadre n° VIII          | Certaines observations relatives à la demande internationale  |

4. Le Bureau international communiquera le présent rapport aux offices désignés conformément aux règles 44bis.3.c) et 93bis.1 mais pas avant l'expiration du délai de 30 mois à compter de la date de priorité (règle 44bis.2), sauf si le déposant a présenté une requête expresse à cet égard en vertu de l'article 23.2).

Date d'établissement du présent rapport  
01 November 2006 (01.11.2006)

Fonctionnaire autorisé

Athina Nickitas-Etienne

e-mail: pt04@wipo.int

Bureau international de l'OMPI  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

no de télécopieur +41 22 338 82 70

Formulaire PCT/IB/373 (janvier 2004)